MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION	
Product name	Proteinase K lyophilized powder with Storage Buffer
Catalog number	Cat. No: OXGE-052
Manufacturer/Supplier	OX-GEN LLC ID 404 480 995 Address: 14th km Natakhtari, Mtskheta Municipality, 3308, Georgia Tel: +995 571 608 601 Email: info@oxgen.ge
Recommended use of the chemical	Laboratory Chemical

2. HAZARD IDENTIFICATION

GHS Classification:
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2
RESPIRATORY SENSITIZATION - Category 1

Label element

SIGNAL WORD:
Danger

Precautionary Statements:
H319 - Causes serious eye irritation.
H315 - Causes Skin irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation

GHS Precaution Phrases:
P280 – Wear protective gloves. Wear eye face protection
P284 – Wear respiratory protection

P271 – Use only outdoors or in a well – ventilated area.

P261 - Avoid breathing vapor

P264 – Wash hands thoroughly after handling

Response:

P304+P340+P312 – if inhaled remove person to fresh air and keep comfortable for breathing, call a poison center or physician if you feel unwell.

P342+P311 – If experiencing respiratory symptoms: Call a poison center or physician

P302+P353+362+P364 – if on skin wash with plenty of soap and water. Take off contaminated clothing and was it before use.

P332+P313 - If skin irritation occurs get medical attention.

P305+P351+P338 - if in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 – If eye irritation persists get medical attention:

Storage:

P405 - Store locked up.

P501 - Dispose of contents and container in accordance with local, regional national and international regulations.

Health hazards not otherwise classified:

None known

3. COMPOSITION/INFORMATION ON INDEGRIENTS		
Substance/Mixture	Powder	
Hazard description	Not applicable	
Information concerning particular hazards for human and environment	Not applicable	
Classificaton system	The classification is according to the latest editions of the EU-lists.	
Proteinase, Tritirachium album serine	% (w/w) 100	CAS Number 39450-01-6

4. FIRST- AID MEASURES	
Inhalation	Remove victim to fresh air and keep at rest position comfortable for breathing. Maintain an open airway. Get, medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Get medical attention if symptoms occur.
Skin contact	Flush contaminated skin with plenty of water. Get, medical attention if symptoms occur

Eye contact	Immediatly flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding envirorment
Fire/Explosion hazards	Not applicable
Specific hazards arising from the chemical	Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Protective equipment	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Put on appropriate personal protective equipment.
Environmental precautions	Take steps to avoid release into the environment, if safe to do so.
Methods for cleaning up	Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

7. HANDLING AND STORAGE	
Handling	Eating, drinking smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area,away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready to use. Containers that have been opened must carefully resealed and kept upright to prevent leakage. Do not store in unlabled container.Use appropriate containment to avoid envirormental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Engineering measures	Good general ventilation should be sufficient to control worker exposure to airborn contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirments of envirormental protection legislation
Personal protection measures	
Respiratory protection	Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assesment indicated this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hand protection	Chemichal-resistent, impervious gloves complying with an approved standard should be worn at all times when handling chemichal products if a risk assessment indicates this is necessary
Eye protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contacted is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemichal splash goggles.
Skin and body protection	Appproriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by specialist before handling this products.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemichal products, before eating, smoking and using lavatory at the end of the working preiod. Appropriate techniques should be used to remove potentially contaminated clothings. Wash contaminated clothing before reusing.Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearence	Solid (powder)
Color	whitish
Odour	odorless
Ph value	3-3.8
Boiling point	Undetermined
Melting point	Undetermined

Flash point	Not applicable
Autoflammability	Not applicable
Explosion hazard	Not applicable
Vapour pressure	No information available
Relative density	No information available
Water solubility	Partially soluble

10. STABILITY AND REACTIVITY

Reactivity:
No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability:
This product is stable.

Possibility of hazardous reactions:
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:
No specific data.

Incompatible materials:
Reactive or incompatible with the following materials: oxidizing materials and reducing materials.

Hazardous Decomposition product: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:

Inhalation	There is no data available
Skin contact	There is no data available
Eye contact	There is no data available
Sensitization	There is no data available
Additional toxicological information	When used and handled according to specifications, the product does not have any harmful effects to our experience

Product /ingredient name	Result	Species	Score	Exposure	Observation

Proteinase, Tritirachum album serine	Category 3	not applicable	not applicable	not applicable	Respiratory tract irritant

12. ECOLOGICAL INFORMATION

Toxicity

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Product/ingredient name	Results	Species	Exposure
Proteinase, Tritirachum album serine	No data available	No data available	No data available

13. DISPOSAL CONSIDERATIONS

Waste handling and disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)	
ADR/RID class	no
Air transport ICAO-TI and IATA-DGR	
ICAO/IATA class	no
Additional information	This substance is considered to be non-hazardous for transport

15. REGULATORY INFORMATION

Labelling according to EU guidelines	This product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.

16. OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. OX-GEN LLC is not held liable for any damage resulting from handling or from contact with the above-mentioned products.